

1/15

1 CCTCTGAAGG TTCTAGAATC GATAGTGAAT TCGTGGGACG GGAAGAGGAA
51 GCACTGCCCTT TACTTCAAGT GGAATCTCGG CCTCAGCCTG CAAGCCAAGT
101 GTTCACAGTG AAAAAAGCAA GAGAATAAGC TAATACTCCT GTCCTGAACA
151 AGGCAGCGGC TCCITGGTAA AGCTACTCCT TGATCGATCC TITGCACCGG
201 ATTGTTCAAA GTGGACCCCA GGGGAGAAGT CGGAGCAAAG AACTTACCAC
251 CAAGCAGTCC AAGAGGCCCA GAAGCAAACC TGGAGGTGAG ACCCAAAGAA
301 AGCTGGAACC ATGCTGACTT TGTACACTGT GAGGACACAG AGTCTGTTCC
351 TGGAAAGCCC AGTGTCAACG CAGATGAGGA AGTCGGAGGT CCCCAAATCT
401 GCCGTGTATG TGGGGACAAG GCCACTGGCT ATCACTTCAA TGTCATGACA
451 TGTGAAGGAT GCAAGGGCTT TTTCAGGAGG GCCATGAAAC GCAACGCCCG
501 GCTGAGGTGC CCCTTCCGGA AGGGCGCCTG CGAGATCACC CGGAAGACCC
551 GCGCAGAGTG CCAGGCCTGC CGCCTGCGCA AGTGCCCTGGA GAGCGGCATG
601 AAGAAGGAGA TGATCATGTC CGACGAGGCC GTGGAGGAGA GCGGGCCTT
651 GATCAAGCGG AAGAAAAGTG AACGGACAGG GACTCAGCCA CTGGGAGTGC
701 AGGGGCTGAC AGAGGAGCAG CGGATGATGA TCAGGGAGCT GATGGACGCT
751 CAGATGAAAA CCTTTGACAC TACCTTCTCC CATTTCAGA ATTCCGGCT
801 GCCAGGGGTG CTTAGCAGTG GCTGCGAGTT GCCAGAGTCT CTGCAGGCCC
851 CATCGAGGGA AGAAGCTGCC AAGTGGAGCC AGGTCCGGAA AGATCTGTGC
901 TCTTTGAAGG TCTCTCTGCA GCTGCGGGGG GAGGATGGCA GTGTCTGGAA
951 CTACAAACCC CCAGCCGACA GTGGCGGGAA AGAGATCTTC TCCCTGCTGC
1001 CCCACATGGC TGACATGTCA ACCTACATGT TCAAAGGCAT CATCAGCTTT
1051 GCCAAAGTCA TCTCCTACTT CAGGGACTTG CCCATCGAGG ACCAGATCTC
1101 CCTGCTGAAG GGGGCCGCTT TCGAGCTGTG TCAACTGAGA TTCAACACAG
1151 TGTTC AACGC GGAGACTGGA ACCTGGGAGT GTGGCCGGCT GTCCTACTGC
1201 TTGGAAGACA CTGCAGGTGG CTTCCAGCAA CTTCTACTGG AGCCCATGCT
1251 GAAATTCCAC TACATGCTGA AGAAGCTGCA GCTGCATGAG GAGGAGTATG
1301 TGCTGATGCA GGCCATCTCC CTCTTCTCCC CAGACCGCCC AGGTGTGCTG
1351 CAGCACCGCG TGGTGGACCA GCTGCAGGAG CAATTCGCCA TTA CTCTGAA
1401 GTCCTACATT GAATGCAATC GGCCCCAGCC TGCTCATAGG TTCTTGTTCC

Fig. 1

001422030000

1451 TGAAGATCAT GGCTATGCTC ACCGAGCTCC GCAGCATCAA TGCTCAGCAC
 1501 ACCCAGCGGC TGCTGCGCAT CCAGGACATA CACCCCTTTG CTACGCCCCCT
 1551 CATGCAGGAG TTGTTGCGCA TCACAGGTAG CTGAGCGGCT GCCCTTGGGT
 1601 GACACCTCCG AGAGGCAGCC AGACCCAGAG CCCTCTGAGC CGCCTCTCCC
 1651 GGGCCAAGAC AGATGGACAC TGCCAAGAGC CGACAATGCC CTGCTGGCCT
 1701 GTCTCCCTAG GGAATTCCTG CTATGACAGC TGGCTAGCAT TCCTCAGGAA
 1751 GGACATGGGT GGGCCCCACC CCCAGTTCAG TCTGTAGGGA GTGAAGCCAC
 1801 AGACTCTTAC GTGGAGAGTG CACTGACCTG TAGGTTCAGGA CCATCAGAGA
 1851 GGCAAGGTTG CCCTTTCCTT TTAAGAGGCC CTGTGGTCTG GGGAGAAATC
 1901 CCTCAGATCC CACTAAAGTG TCAAGGTGTG GAAGGGACCA AGCGACCAAG
 1951 GATAGGCCAT CTGGGGTCTA TGCCCACATA CCCACGTTTG TTCGCTTCCT
 2001 GAGTCTTTTC ATTGCTACCT CTAATAGTCC TGTCTCCAC TTCCCACTCG
 2051 TTCCCTCCT CTTCCGAGCT GCTTTGTGGG CTCAAGGCCT GTACTCATCG
 2101 GCAGGTGCAT GAGTATCTGT GGGAGTCCTC TAGAGAGATG AGAAGCCAGG
 2151 AGGCCTGCAC CAAATGTCAG AAGCTTGGA TGACCTCATT CCGGCCACAT
 2201 CATTCTGTGT CTCTGCATCC ATTTGAACAC ATTATTAAGC ACTGATAATA
 2251 GGTAGCCTGC TGTGGGGTAT ACAGCATTGA CTCAGATATA GATCCTGAGC
 2301 TCACAGAGTT TATAGTTAAA AAAACAAACA GAAACACAAA CAATTTGGAT
 2351 CAAAAGGAGA AAATGATAAG TGACAAAAGC AGCACAAGGA ATTTCCCTGT
 2401 GTGGATGCTG AGCTGTGATG GCAGGCACTG GGTACCCAAG TGAAGGTTC
 2451 CGAGGACATG AGTCTGTAGG AGCAAGGGCA CAACTGCAG CTGTGAGTGC
 2501 GTGTGTGTGA TTTGGTGTAG GTAGGTCTGT TTGCCACTTG ATGGGGCCTG
 2551 GGTGTGTTCC TGGGGCTGGA ATGCTGGGTA TGCTCTGTGA CAAGCCTACG
 2601 CTGACAATCA GTTAAACACA CCGGAGAAGA ACCATTTACA TGCACCTTAT
 2651 ATTTCTGTGT ACACATCTAT TCTCAAAGCT AAAGGGTATG AAAGTGCCTG
 2701 CCTTGTTTAT AGCCACTTGT GAGTAAAAAT TTTTTTGCAT TTTCACAAAT
 2751 TATACTTTAT ATAAGGCATT CCACACCTAA GAACTAGTTT TGGGAAATGT
 2801 AGCCCTGGGT TTAATGTCAA ATCAAGGCAA AAGGAA'TTAA ATAATGTACT
 2851 TTTGGCTAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA
 2901 AAAAA

Fig. 1 (cont.)

Evolutionary Neighbour-Joining Tree

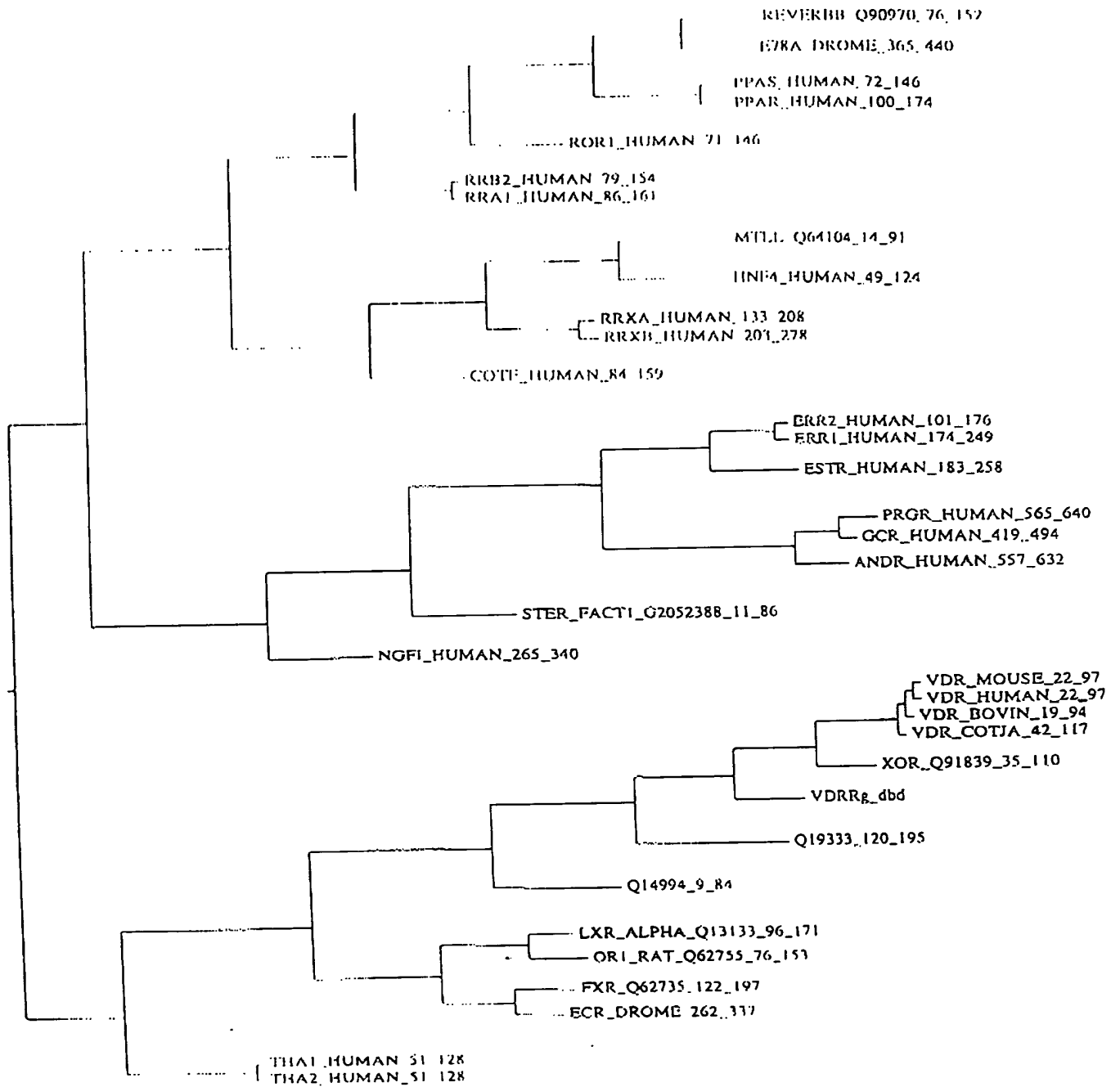
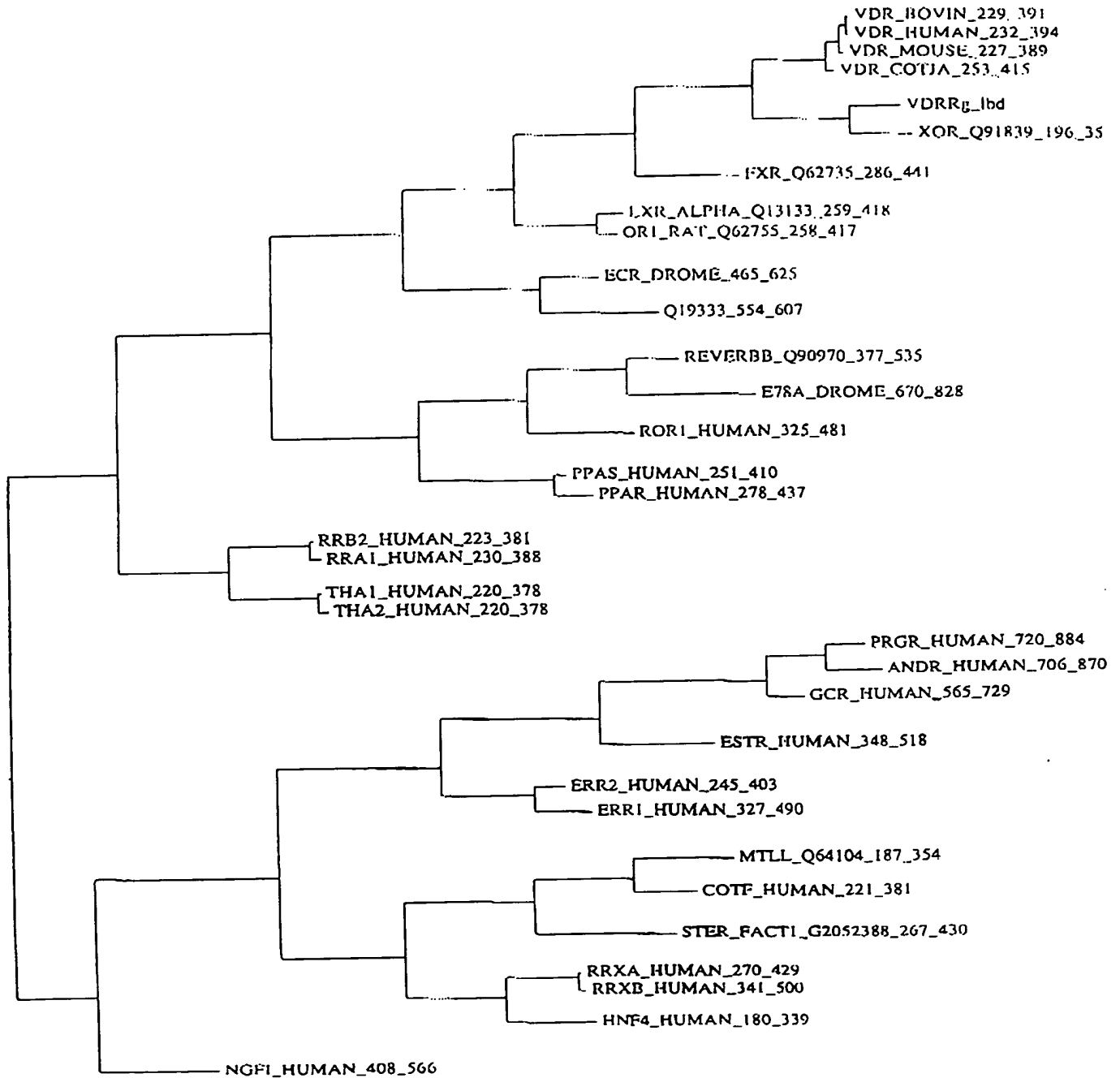


Fig. 2

Evolutionary Neighbour-Joining Tree



00143828 083198

Fig. 4

00143828-083198

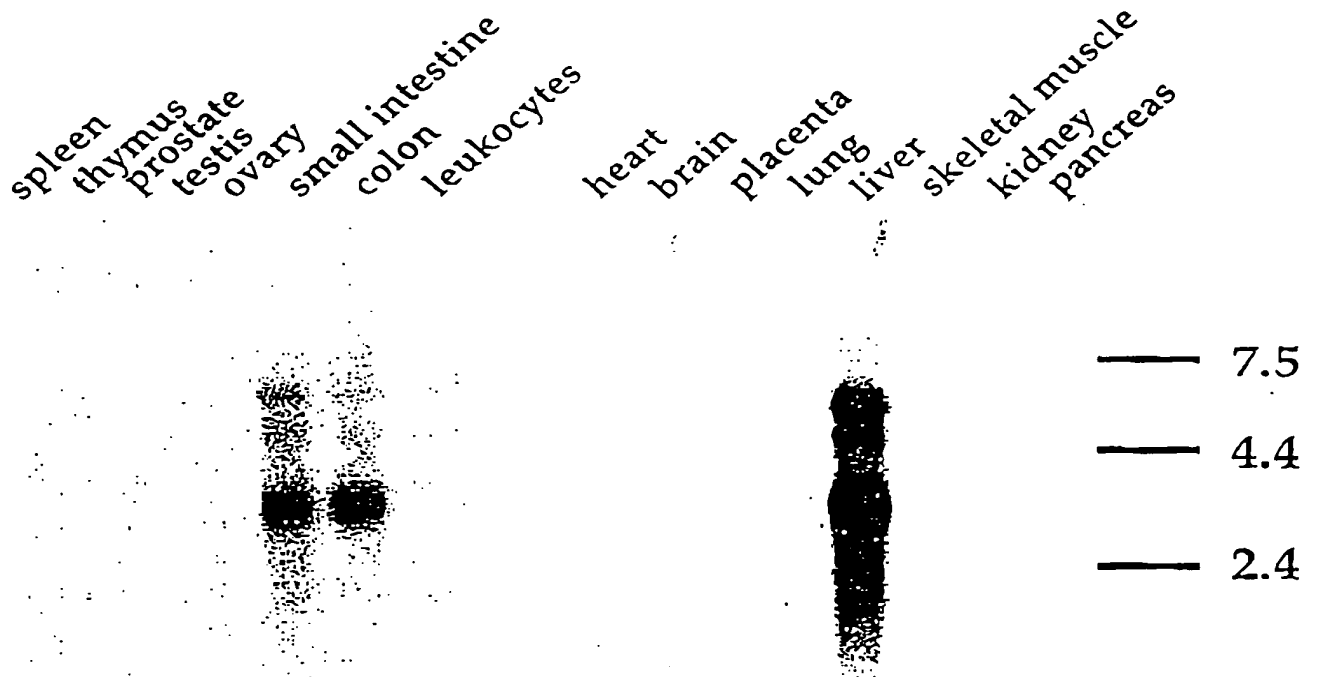


Fig. 5

7/15

SECRETED" 82884160

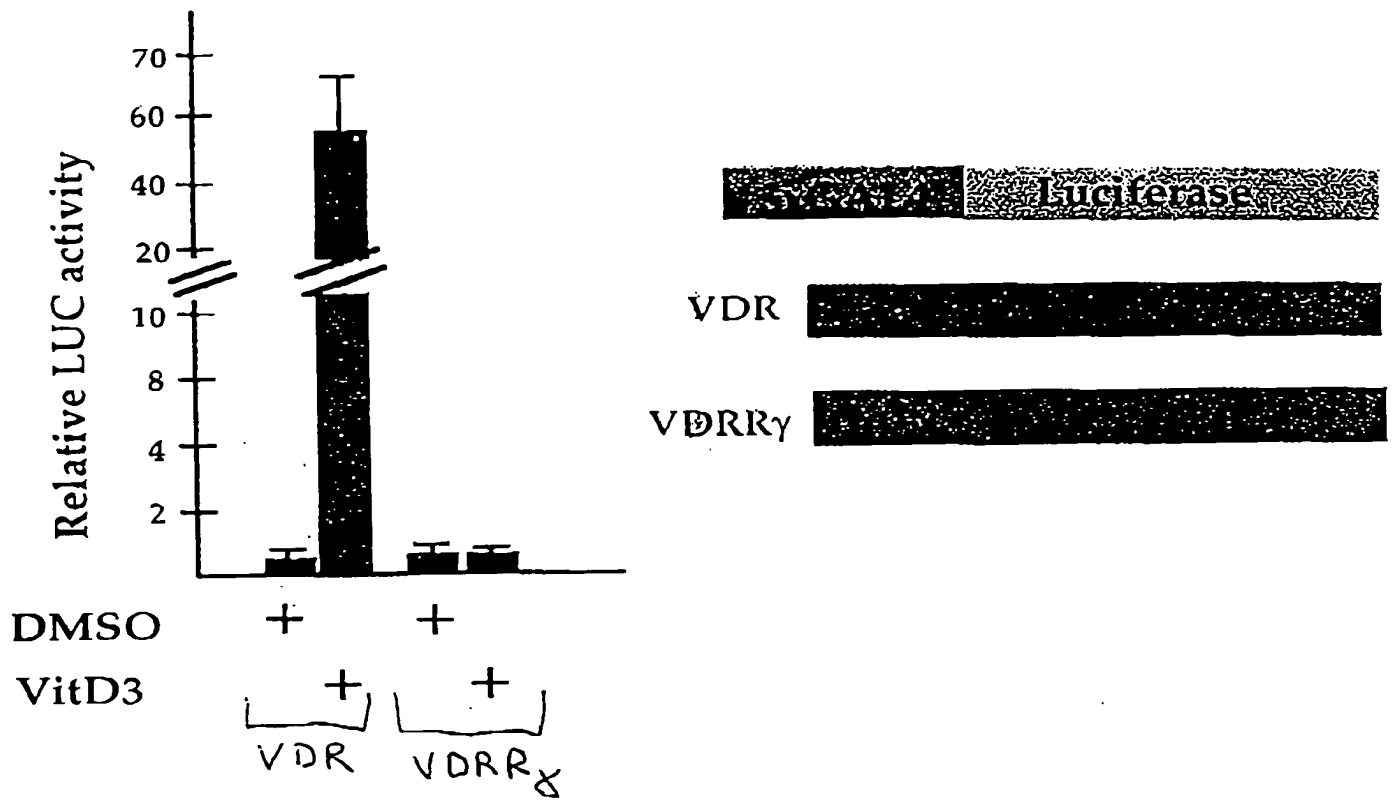


Fig. 6

TGAATTCTGGGGCTGCTGGGTTAGTGTGGCAGCCCCC 40
 TGAGGCCAAGGACAGCAGCATGACAGTCACCAGGACTCAC 80
 CACTTCAAGGAGGGGTCCCTCAGAGCACCTGCCATACCCC 120
 TGCACAGTGTCTGGGCTGAGTTGGCTTCAAACCATCCAAG 160
 AGGCCCAGAAGCAAACCTGGAGGTGAGACCCAAAGAAAGC 200
 TGGAACCATGCTGACTTTGTACACTGTGAGGACACAGAGT 240
 CTGTTCCCTGGAAAGCCCAGTGTCAACGCAGATGAGGAAGT 280
 CGGAGGTCCCCAAATCTGCGGTGTATGTGGGGACAAGGCC 320
 ACTGGCTATCACTTCAATGTTCATGACATGTGAAGGATGCA 360
 AGGGCTTTTTCAGGAGGGGCCATGAAACGCAACGCCCGGCT 400
 GAGGTGCCCTTTCCGAAGGGGGCCCTGCGAGATCACCCGG 440
 AAGACCCCGCGACAGTGCAGGCCCTGCCGCTGCGCAAGT 480
 GCCTGGAGAGCGGCATGAAGAAGGAGATGATCATGTCCGA 520
 CGAGGCCGTGGAGGAGAGGGCGGGCCCTTGATCAAGCGGAAG 560
 AAAAGTGAACCGACAGGGACTCAGCCACTGGGAGTGCAGG 600
 GGCTGACAGAGGAGCAGCGGATGATGATCAGGGAGCTGAT 640
 GGACGCTCAGATGAAAACCTTTGACACTACCTTCTCCCAT 680
 TTCAAGAATTTCCGGCTGCCAGGGGTGCTTAGCAGTGGCT 720
 GCGAGTTGCCCAGAGTCTCTGCAGGCCCCATCGAGGGAAGA 760
 AGCTGCCAAGTGGAGCCAGGTCCCGGAAAGATCTGTGCTCT 800
 TTGAAGGTCTCTCTGCAGCTGCCGGGGGAGGATGGCAGTG 840
 TCTGGAACCTACAAACCCCCAGCCGACAGTGGCGGGAAAGA 880
 GATCTTCTCCCTGCTGCCCCACATGGCTGACATGTCAACC 920
 TACATGTTCAAAGGCATCATCAGCTTTGCCAAAGTCACT 960
 CCTACTTTCAGGGACTTGCCCATCGAGGACCAGATCTCCCT 1000
 GCTGAAGGGGGCGCGCTTTGAGCTGTGTCAACTGAGATT 1040
 AACACAGTGTTCAAACGGGAGACTGGAACCTGGGAGTGTG 1080
 GCGGCTGTCTTACTGCTTGGGAAGACACTGCAGGTGGCTT 1120
 CCAGCAACTTCTTACTGGAGCCCATGCTGAAATTCCACTAC 1160
 ATGCTGAAGAAGCTGCAGCTGCATGAGGAGGAGTATGTGC 1200
 TGATGCAGGCCATCTCCCTCTTCTCCCCAGACCGCCAGG 1240
 TGTGCTGCAGCAACCGGTGGTGGACCAGCTGCAGGAGCAA 1280
 TTGCCCATTACTCTGAAGTCTTACATTGAATGCAATCGGC 1320
 CCCAGCCTGCTCATAGGTCTTGTTCCTGAAGATCATGGC 1360
 TATGCTCACCGAGCTCCGCAGCATCAATGCTCAGCACACC 1400
 CAGCGGCTGCTGCGCATCCAGGACATACACCCCTTTGCTA 1440

Fig. 7

9/15

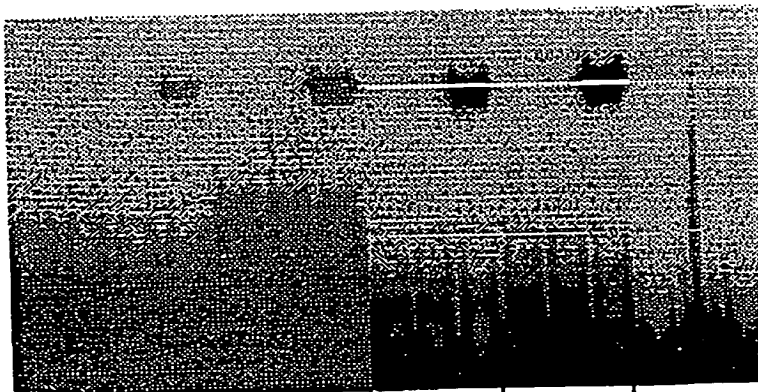
CGCCCCCTCATGCAGGAGTTGTTOGGCATCACAGGTAGCTG 1480
 AGCGGCTGCCCCCTTGGGTGACACCTCCGAGAGGCAGCCAGA 1520
 CCCAGAGCCCTCTGAGCCGCCACTCCCGGGCCAAGACAGA 1560
 TGGACACTGCCAAGAGCCGACAATGCCCTGCTGGCCCTGTC 1600
 TCCCTAGGGAATTCCCTGCTATGACAGCTGGCTAGCATTC 1640
 TCAGGAAGGACATGGGTGCCCCCCCACCCCCAGTTTCAGTCT 1680
 GTAGGGAGTGAAGCCACAGACTCTTACGTGGAGAGTGCAC 1720
 TGACCTGTAGGTTCAGGACCATCAGAGAGGCAAGGTTGCC 1760
 TTTCCCTTTTAAAAGGCCCTGIGGTCTGGGGAGAAATCCCT 1800
 CAGATCCCACTAAAGTGTCAGGGTGTGGAAGGGACCAAGC 1840
 GACCAAGGATAGGCCATCTGGGGTCTATGCCACATACCC 1880
 ACGTTTGTTCGCTTCCTGAGTCTTTTCATTGCTACCTCTA 1920
 ATAGTCCCTGCTTCCCACTTCCCACTCGTTCCCTCCTCTT 1960
 CCGAGCTGCTTTGTGGGCTCAAGGCCGTACTCATCGGCA 2000
 GGTGCATGAGTATCTGTGGGAGTCTCTAGAGAGATGAGA 2040
 AGCCAGGAGGCCCTGCACCAAATGTGAGAAGCTTGGCATGA 2080
 CCTCATTCGGCCACATCATTCGTGTCTCTGCATCCATT 2120
 TGAACACATTATTAAGCACTGATAATAGGTAGCCCTGCTGT 2160
 GGGGTATACAGCATTGACTCAGATATAGATCCTGAGCTCA 2200
 CAGAGTTTATAGTTTAAAAAACAAACAGAAACACAAACAA 2240
 TTTGGATCAAAAGGAGAAATGATAAGTIGACAAAAGCAGC 2280
 ACAAGGAATTTCCCTGTGTGGATGCTGAGCTGTGATGGCA 2320
 GGCACITGGGTACCCAAGTGAAGGTTCOCGAGGACATGAGT 2360
 CTGTAGGAGCAAGGGCACAACTGCAGCTGTGAGTGGGTG 2400
 TGIGTGATTTGGTGTAGGTAGGTCTGTGTGGCCACTTGATG 2440
 GGGCCCTGGGTTTGTTCCTGGGGCTGGAATGCTGGGTATGC 2480
 TCTGTGACAAGGCTACGCTGACAATCAGTTAAACACACCG 2520
 GAGAAGAACCATTACATGCACCTTATATTTCGTGTGACA 2560
 CATCTATTCTCAAAGCTAAAGGGTATGAAAGTGCCTGCCT 2600
 TGTTTATAGCCACTTGTGAGTAAAAATTTTTTTGCATTTT 2640
 CACAAATTATACTTTATATAAGGCATTCCACACCTAAGAA 2680
 CTAGTTTTTGGGAAATGTAGCCCTGGGTTTAAATGTCAAATC 2720
 AAGGCAAAAGGAATTAAATAATGTACTTTTGGCTAAAAAA 2760
 AA 2800
 AA 2802

Fig. 7 (cont.)

MTVTRTHHFKEGSLRAPAIPLHSAAAELASNHPRGPEANL 40
 EVRPKESWNHADDFVHCEDTESVPGKPSVNADEEVGGPQIC 80
 RVC GDKATGYHFNVMTCEGCKGFFRRAMKRNARLRCPFRK 120
 GACEITRKTRRQCQACRLRKCLESGMKKEMIMSDEAVEER 160
 RALIKRKKK SERTGTQPLGVQGLTEEQRMMIRELMDAQMK 200
 FDTTFSHFKNFRLPGVLSSGCELPESLQAPSREEAAKWSQ 240
 VRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLP 280
 HMADMSTYMFKGIIISFAKVISYFRDLPIEDQISLLKGA 320
 ELCQLRFNTVFN AETGTWECGRLSYCLEDTAGGFQQLLE 360
 PMLKFHYMLKKLQLHEEEYVLMQAISLFS PDRPGVLQHRV 400
 VDQLQE QFAITLKS YIECNRPQPAHRFLFLKIMAMLT 440
 SINAQHTQRLRLRIQDIHPFATPLMQELFGITGS. 474

Fig. 8

FREE PROBE
→



RXR	-	+	-	+	+	-	+	+	-	+	+	-	+	+	-	+
VDRR	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	DR-1				DR-2		DR-3		DR-4		DR-5					

Fig. 9

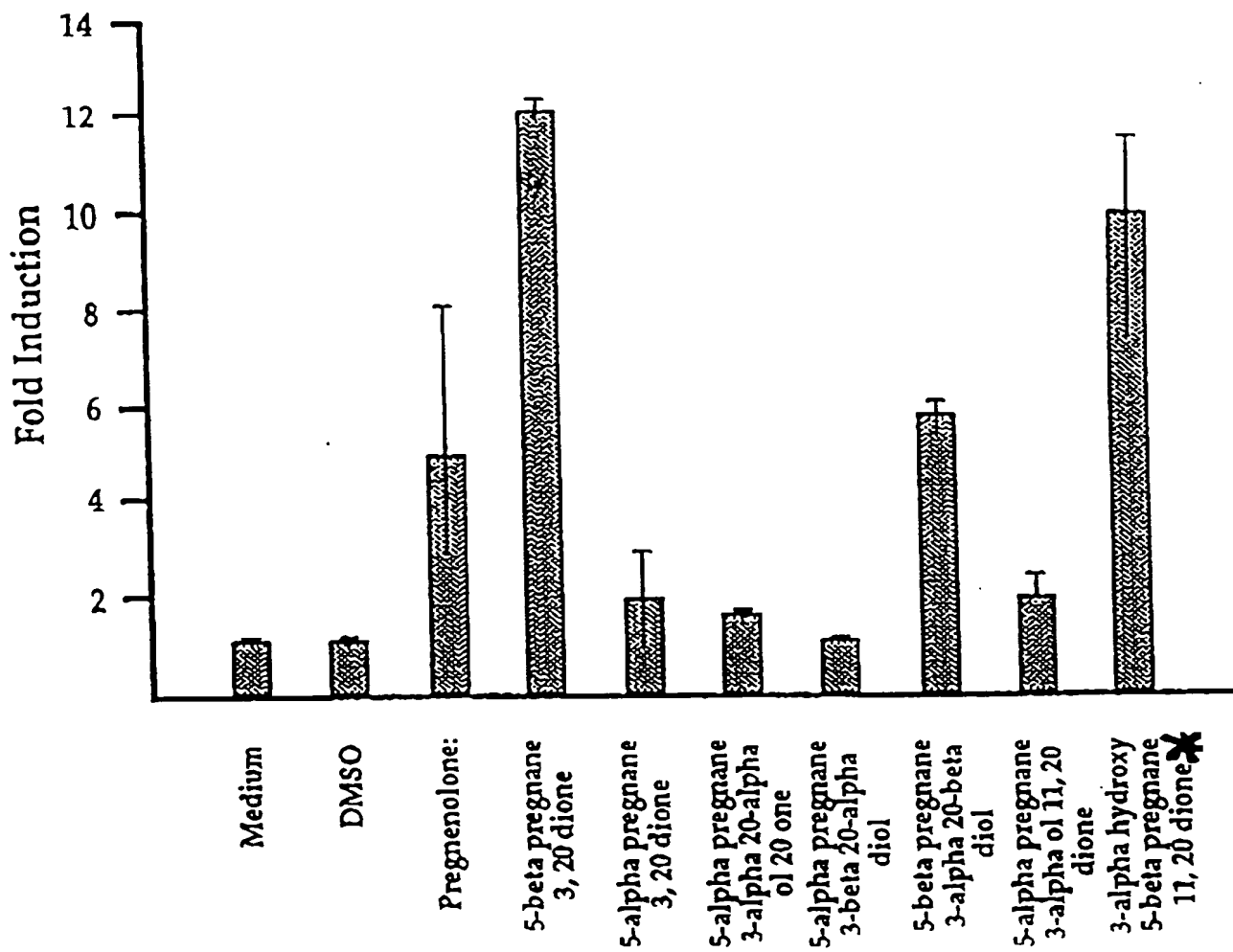


Fig. 10

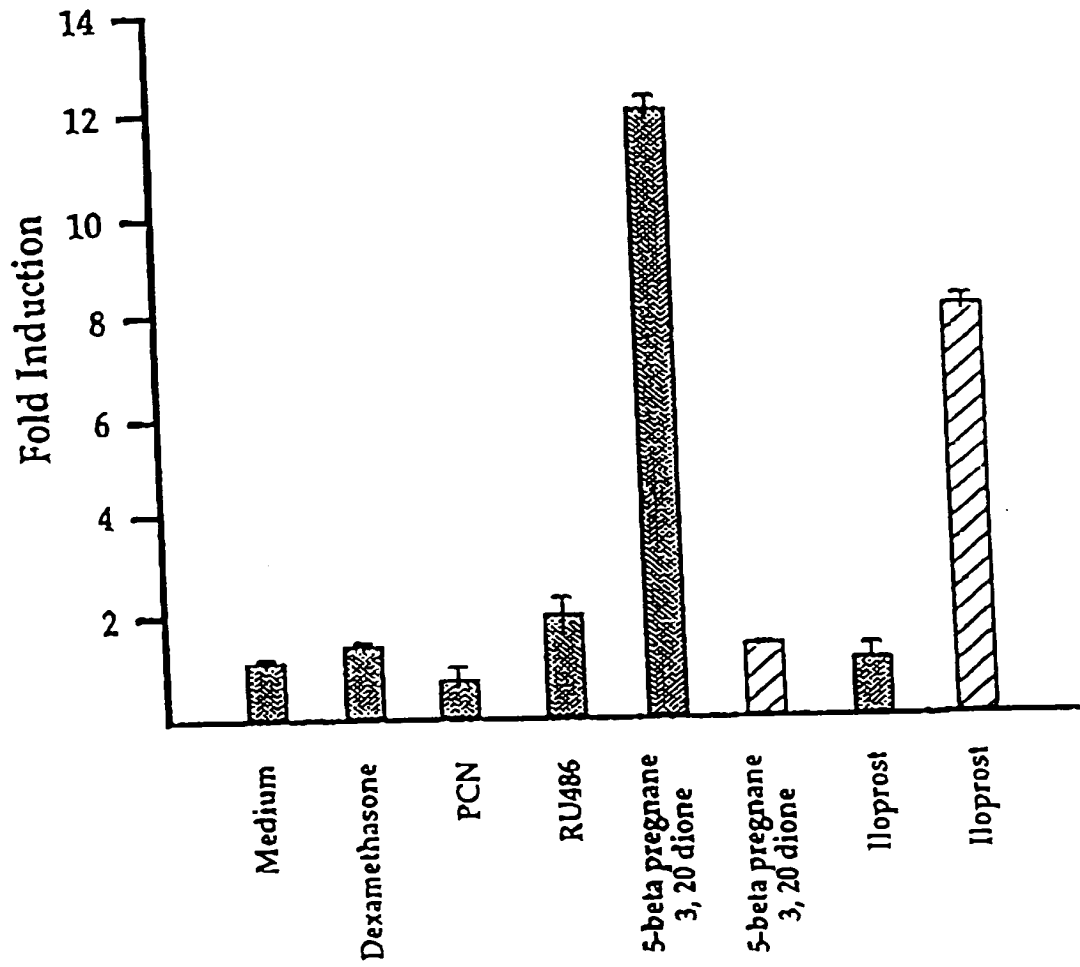


Fig. 11

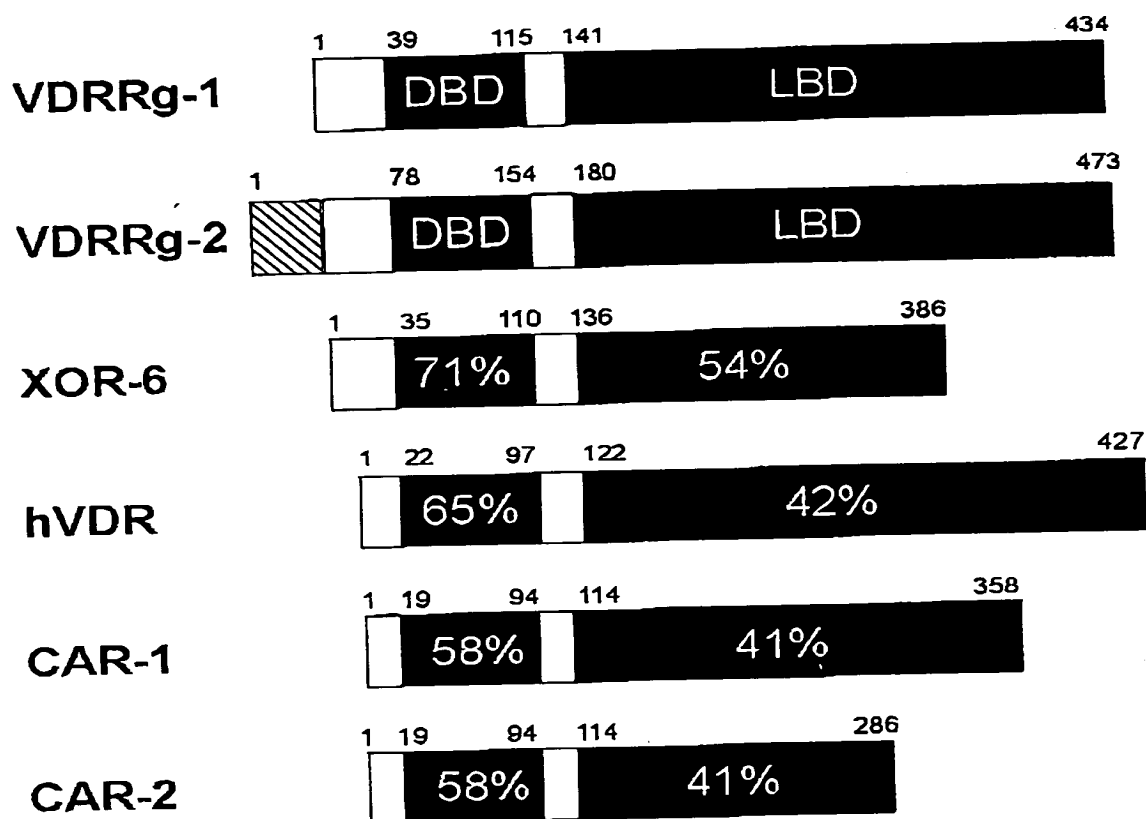


Fig. 12

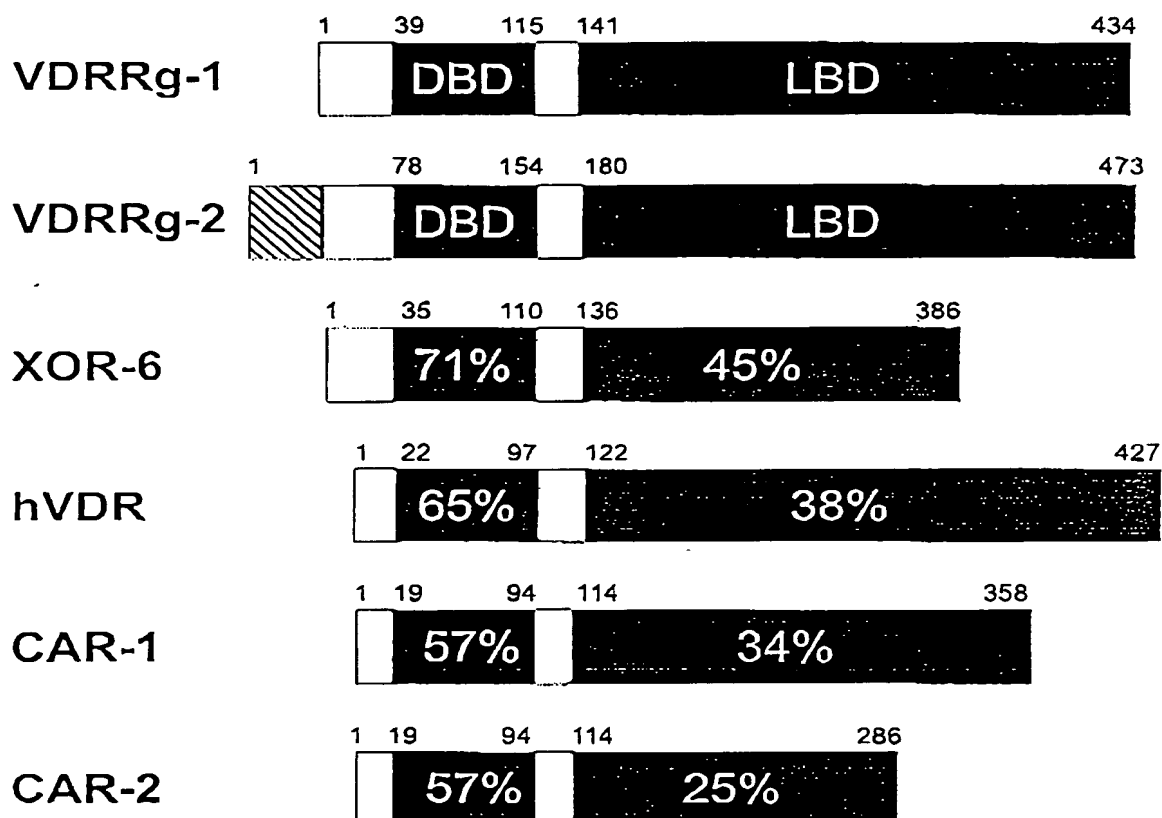


Fig. 13